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APPLICATION NO.	I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/967,065		09/28/2001	Abhay A. Dharmadhikari	884.492US1	4898
21186	7590	02/04/2005		EXAMINER	
SCHWEGN	MAN, LU	UNDBERG, WOES	LIN, WEN TAI		
P.O. BOX 29	938				
MINNEAPO	LIS, M	N 55402	ART UNIT	PAPER NUMBER	
	•			2154	
				DATE MAILED: 02/04/2009	•

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/967,065	DHARMADHIKARI ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Wen-Tai Lin	2154				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE I - Exter after - If the - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR REPL'MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 28 S	entember 2001					
·		s action is non-final.					
'==	<i>'</i> —		secution as to the merits is				
٠,۵	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	Claim(s) 1-33 is/are pending in the application						
-	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
·	Claim(s) 1-33 is/are rejected.						
·	Claim(s) is/are objected to.						
·	Claim(s) are subject to restriction and/o	or election requirement.					
Applicati	on Papers						
	The specification is objected to by the Examine	ar					
·	10)⊠ The drawing(s) filed on <u>28 September 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
. د د د د د د د د د د د د د د د د د د د	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) 🗆 :	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	inder 35 U.S.C. § 119						
	•	nriority under 25 H C C - \$ 110(a)	(d) or (f)				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. ☐ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
Copies of the certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau		a in this National Stage				
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
	t(s) e of References Cited (PTO-892)	4) Interview Summary	(DTO 413)				
	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite				
3) 🔲 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal P. 6) Other:	atent Application (PTO-152)				

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DETAILED ACTION

- 1. Claims 1-33 are presented for examination.
- 2. Claims 27 is objected to because the term "the selected network device" appears to lack antecedent basis.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1, 6-11, 23 and 28-33 are rejected under 35 U.S.C. 102(e) as being anticipated by Saint-Hilaire et al. [U.S. PGPub 20020147832].
- 5. As to claim 1, Saint-Hilaire teaches the invention as claimed including: a method for selecting a network interface, the method comprising:

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receiving a policy specifying user preferences [e.g., paragraphs 22 and 30; i.e., inherently there is one or more policies specifying the preferences];

selecting a network interface from a plurality of network interfaces by matching the user preferences to a network interface characteristic [Fig.2; paragraphs 30-31]; and

modifying a routing table entry associated with the selected network interface [paragraphs 5, 37 and 82; note that modifying/updating a relevant routing table to accommodate a selected nework interface is an inherent operation of Saint-Hilaire's router].

- 6. As to claims 6-11, The method of claim 1, wherein receiving a policy includes receiving a policy specifying a network preference based on a cost of using a network communicably coupled to the network interface [paragraphs 30-31].
- 7. As to claims 23 and 28-33, since the features of these claims can also be found in claims 1 and 6-11, they are rejected for the same reasons set forth in the rejection of claims 1 and 6-11 above.

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious

at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 9. Claims 2-5 and 24-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saint-Hilaire et al.(hereafter "Saint-Hilaire")[U.S. PGPub 20020147832], as applied to claims 1, 6-11, 23 and 28-33 above, further in view of Nakamura; et al.(hereafter "Nakamura;")[U.S. Pat. No. 6553031].
- 10. As to claims 2-5, Saint-Hilaire teaches that each network interface needs to be marked as passive or active [paragraph 31]. Saint-Hilaire does not specifically teach that the routing table entry includes a metric field and further wherein modifying the routing table entry includes modifying the metric field.

However, in the same field of endeavor, Nakamura; teaches a routing table having a plurality of entries each associated with an entry priority [Nakamura;: 15, Fig.5; 154, Fig.6; i.e., a metric field], which can be set to 1 (i.e., raising the priority) or set to 0 (i.e., lowering the priority) depending on a connection establishment flag so as to indicate that the associated low priority entries could be deleted (e.g., when no idle area exist for the table) [Abstract; col.7, lines 1-14].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Nakamura;'s metric field for controlling the next-hop address in Saint-Hilaire's routing table because Nakamura;'s method is an efficient way for marking Saint-Hilaire's plurality of network interfaces (each associated with a routing table's out port) as passive or active.

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- 11. As to claims 24-27, since the features of these claims can also be found in claims 1-5 and 23, they are rejected for the same reasons set forth in the rejection of claims 1-5 and 23 above.
- 12. Claims 12-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saint-Hilaire et al.(hereafter "Saint-Hilaire")[U.S. PGPub 20020147832], as applied to claims 1-11 and 23-33 above.
- 13. As to claims 12-14, Saint-Hilaire teaches using policies to effect information processing (which naturally includes how the active interfaces are chosen along the routing path can be imposed, required, or suggested by the application sending the information, wherein the application is a software-based configuration program [paragraphs 22-23]. Thus, although Saint-Hilaire does not specifically teach how the policy is received, it is obvious that an application (along with path-forming policies) may be originated from a user interface, a configuration file or an environment variable, because Saint-Hilaire's order of preferences is adapted to the network environment.
- 14. As to claims 15-22, Saint-Hilaire teaches substantially the same invention as described in claims 1-14 above. Saint-Hilaire is silence about using: (1) a user interface for specifying user preferences; (2) a policy manager for performing the selection of

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appropriate network interfaces; and (3) a link monitor for monitoring the status of network interface.

However, since Saint-Hilaire teaches that selection of active interfaces is based on an order of preference [paragraph 30], it is obvious that such preference could be directly acquired from a user interface. Further, there must be some means (or calling it a policy manager) in Saint-Hilaire's system to perform the selection based on the expressed preferences; and there must be some means for monitoring the availability of a network interface because Saint-Hilaire's system's need to decide whether the interface is active or passive.

15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Doviak; et al. [U.S. Pat. No. 6198920];

Xu et al. [U.S. PGPub 20030026211];

Saint-Hilaire et al. [U.S. PGPub 20020142774];

Nishi [U.S. PGPub 20010027484];

Jurkevich; et al. [U.S. Pat. No. 5282207]; and

La et al. [U.S. Pat. No. 6654359].

16. A shortened statutory period for response to this action is set to expire 3 (three) months and 0 days from the mail date of this letter. Failure to respond within the period

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for response will result in ABANDONMENT of the application (see 35 U.S.C. 133,

M.P.E.P. 710.02, 710.02(b)).

Conclusion

Examiner note: Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of the applicant.

Although the specified citations are representative of the teachings of the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the contest of the passage as taught by the prior art or disclosed by the Examiner.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wen-Tai Lin whose telephone number is (571)272-3969. The examiner can normally be reached on Monday-Friday (8:00-5:00)

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (571)272-3964. The fax phone numbers for the organization where this application or proceeding is assigned are as follows:

(703)872-9306 for official communications; and (571)273-3969 for status inquires draft communication.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ulen Jant.

Wen-Tai Lin

February 3, 2005